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| <b>(51) International Patent Classification <sup>6</sup> :</b><br><b>A01K 67/00, C12N 15/06, A61K 35/54</b>  | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 99/46982</b><br><b>(43) International Publication Date:</b> 23 September 1999 (23.09.99)  |
| <b>(21) International Application Number:</b> PCT/AU99/00165<br><b>(22) International Filing Date:</b> 16 March 1999 (16.03.99)<br><b>(30) Priority Data:</b><br>PP 2364 16 March 1998 (16.03.98) AU<br>PP 7720 15 December 1998 (15.12.98) AU<br><b>(71) Applicant (for all designated States except US):</b> BRESAGEN LIMITED [AU/AU]; 38-39 Winwood Street, Thebarton, S.A. 5031 (AU).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> VERMA, Paul, John [AU/AU]; 16 Princes Road, Greenacres, S.A. 5086 (AU). NOTTLE, Mark, Brenton [AU/AU]; Lot P, Alexander Avenue, RSD Bibaringa, S.A. 5118 (AU).<br><b>(74) Agents:</b> STEARNE, Peter, A. et al.; Davies Collison Cave, Level 10, 10 Barrack Street, Sydney, NSW 2000 (AU).  |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> PORCINE NUCLEAR TRANSFER<br><br><b>(57) Abstract</b><br><br>A process for the production of nuclear transferred porcine embryonic cells which includes providing a porcine oocyte at the Metaphase II stage of development from which the nucleus is removed, transferring a porcine karyoplast at the G0 or G1 state into the oocyte to give a nuclear transferred porcine embryonic cell and optionally culturing the nuclear transferred cell <i>in vitro</i> to allow one or more cell divisions to give a plurality of nuclear transferred porcine embryonic cells is disclosed. Also disclosed is a process for the clonal generation or propagation of pigs which process includes providing a porcine oocyte at the Metaphase II stage of development from which the nucleus is removed, transferring a porcine donor karyoplast at the G0 or G1 state into the oocyte to give a nuclear transferred porcine embryonic cell, and thereafter culturing the nuclear transferred cell <i>in vitro</i> to allow one or more cell divisions to give a plurality of nuclear transferred porcine embryonic cells, and thereafter transferring a plurality of porcine embryonic cells so produced into a pregnancy competent uterus of a female pig which at conclusion of the pregnancy term gives rise to one or more genetically identical off-spring. |           |   |